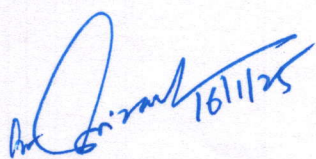


Syllabus For The Ph.D. Entrance Examination

| | | |
|-----------------------|---|----------------------|
| Name Of The Institute | : | INSTITUTE OF SCIENCE |
| Academic Year | : | 2025-2026 |

1. RESEARCH METHODOLOGY

Design of research experiments; definitions of various types of clinical trials; randomization; hypothesis testing; types of variables; type-1 and type-2 error in null hypothesis, probability and confidence interval, standard deviation and standard error; t-test, P-Value, ANOVA, manual and computer based methods of calculation of statistical significance; method and sources of literature survey; basics of bioinformatics, ethics of scientific experiments and publications; Plagiarism; Intellectual property rights; Good laboratory practice; Data archiving and management; Human and animal ethical committee: mandate, structure, & guidelines; Biosafety aspects for human and ecosystem in scientific experiments;

 16/11/25

Date & Signature of HoD / HoI on each page